

Appl. No. 09/864,468  
Amdt. Dated February 9, 2004  
Reply to Office action of November 26, 2003  
Attorney Docket No. P13111  
EUS/J/P/04-1022

### REMARKS/ARGUMENTS

#### **1.) Amendments**

The Applicants have amended claims 1 and 2 to more particularly point out and distinctly claim the subject matter that Applicants regard as the invention; no new matter has been added. The Applicants have also cancelled claim 5 and added claims 6 and 7. Accordingly, claims 1-4 and 6-7 remain pending in the application. Favorable reconsideration of the application is respectfully requested in view of the foregoing amendments and the following remarks.

#### **2) Allowable Subject Matter**

The Applicants thank the Examiner for the allowance of claims 3 and 4.

#### **3.) Claim Rejections – 35 U.S.C. § 103 (a)**

The Examiner rejected claims 1 and 5 as being unpatentable over Chan, et al. (US 5,970,144) in view of Fox (US 5,765,172); and claim 2 as being unpatentable over Chan in view of Fox as applied to claim 1, and further in view of Antic, et al. (US 5,594,94). The Applicants traverse the rejections.

Claim 1 recites:

1. A method for updating location information of a mobile station when said mobile station has moved from an area controlled by a first mobile services switching center to an area controlled by a second mobile services switching center, said method comprising:

adding information relating to said mobile station to a second mobile services switching center database in response to said mobile station registering with said second mobile services switching center;

Appl. No. 09/854,468  
Arndt Dated February 9, 2004  
Reply to Office action of November 26, 2003  
Attorney Docket No. P13111  
EUS/J/P/04-1022

calculating a checksum on said second mobile services switching center database;  
sending a home location register checksum to said second mobile services switching center from a home location register;  
comparing said home location register checksum and said second mobile services switching center checksum; and  
if said home location register checksum and said second mobile services switching center checksum are equal, sending a location registration signal from said second mobile services switching center to said mobile station. (emphasis added)

As the Examiner notes, Chan fails to "specifically disclose calculating checksum and comparing checksum." The Applicants agree with the Examiner, but note that the Applicants' invention is much more than simply calculating and comparing checksums. The Applicants' invention addresses a problem in wireless communications systems relating to invalid location information and is characterized, in part, by the processes of 1) calculating a checksum on a database associated with a mobile services switching center for a geographical region in which a mobile station is currently located (i.e., a "second mobile services switching center"), 2) the transmission of a home location register checksum to that mobile services switching center from a home location register, 3) comparing those checksums, and 4) if the checksums are equal, sending a location registration signal to the mobile station. Chan fails to disclose any of those processes that *combined* comprise Applicants' invention.

Because Chan fails to suggest, much less teach, the use of checksums as a means to solve the problem solved by Applicants' invention, the Examiner has considered the teachings of Fox to cure the deficiencies of Chan, stating that Fox teaches "a method for calculating checksum and comparing checksum." Fox, however,

Appl. No. 09/864,468  
Amtd. Dated February 9, 2004  
Reply to Office action of November 26, 2003  
Attorney Docket No. P13111  
EUS/J/P/04-1022

does not disclose the application of calculating or comparing checksums to the problem addressed by Applicant's invention. In fact, Fox does not even mention wireless telecommunications systems, much less the communication and comparison of checksums between mobile services switching centers and home location registers. Therefore, Chan and Fox, either taken alone or in combination, fail to teach each and every limitation of claim 1 and, thus, that claim is patentable over Chan in view of Fox. Whereas claim 2 is dependent from claim 1, and includes the limitations thereof, that claim is also patentable over Chan in view of Fox. Accordingly, the Applicants respectfully request that the Examiner withdraw the rejection of claims 1 and 2. Furthermore, whereas claim 6 recites limitations analogous to those of claim 1, it is also patentable over Chen in view of Fox, as is claim 7 which is dependent therefrom.

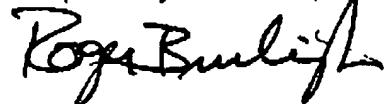
Appl. No. 09/864,468  
Amdt. Dated February 9, 2004  
Reply to Office action of November 26, 2003  
Attorney Docket No. P13111  
EUS/J/P/04-1022

### CONCLUSION

In view of the foregoing amendments and remarks, the Applicants believe all of the claims currently pending in the Application to be in a condition for allowance. The Applicants, therefore, respectfully request that the Examiner withdraw all rejections and issue a Notice of Allowance for Claims 1-4 and 6-7.

The Applicants request a telephonic interview if the Examiner has any questions or requires any additional information that would further or expedite the prosecution of the Application.

Respectfully submitted,



Roger S. Burleigh  
Registration No. 40,542  
Ericsson Patent Counsel

Ericsson Inc.  
6300 Legacy Drive  
M/S EVW 2-C-2  
Plano, TX 75024  
Phone: 972-583-5799  
Fax: 972-583-7864  
roger.burleigh@ericsson.com